

#### ABSTRACT OF THE DISCLOSURE

A defibrillator circuit that delivers high voltage electrical defibrillation pulses and lower energy pacing pulses to a patient. The circuit includes a current regulator which is operative to control the current level applied to the patient. Control circuitry is provided which permits the current regulator to be disabled in the defibrillation mode of operation prior to application of defibrillation pulses. An H-bridge supplies pulses to the patient and the current regulation is provided serially with the H-bridge such that current is regulated regardless of the polarity of pulses applied to the patient.